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MX-69-121

OPERATOR'S MANUAL
FOR
UNIVERSAL GROUND ADAPTER CA-269
MAGNAVOX PART NO. 900060-801

Draft

PLS see corrections

Magnavox Electronic Systems Company

2 OCTOBER 1985

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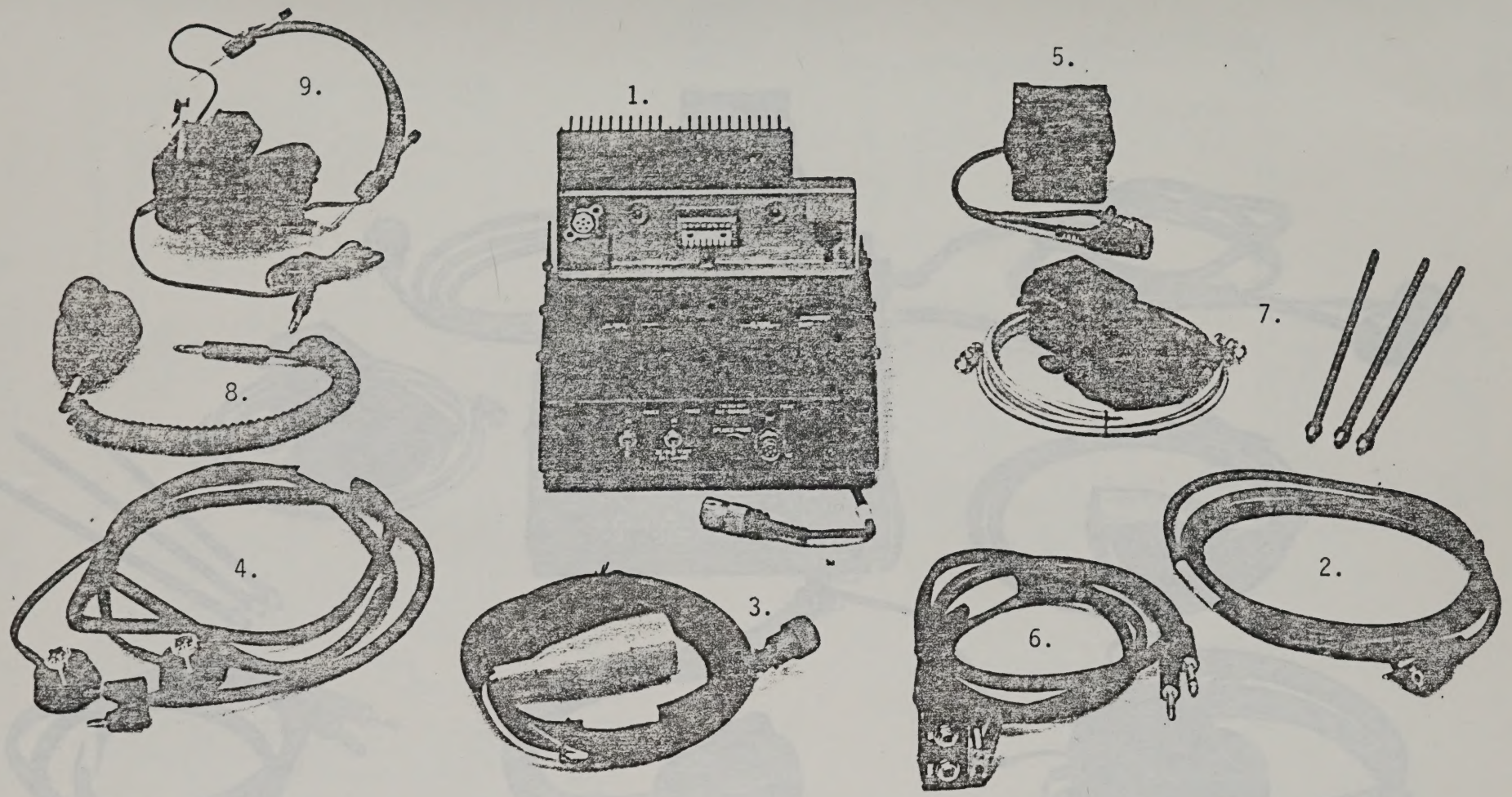

SEE TABLE 1-1

FIGURE 1-1 CA-269 (MXF-212-1)
COMPONENTS

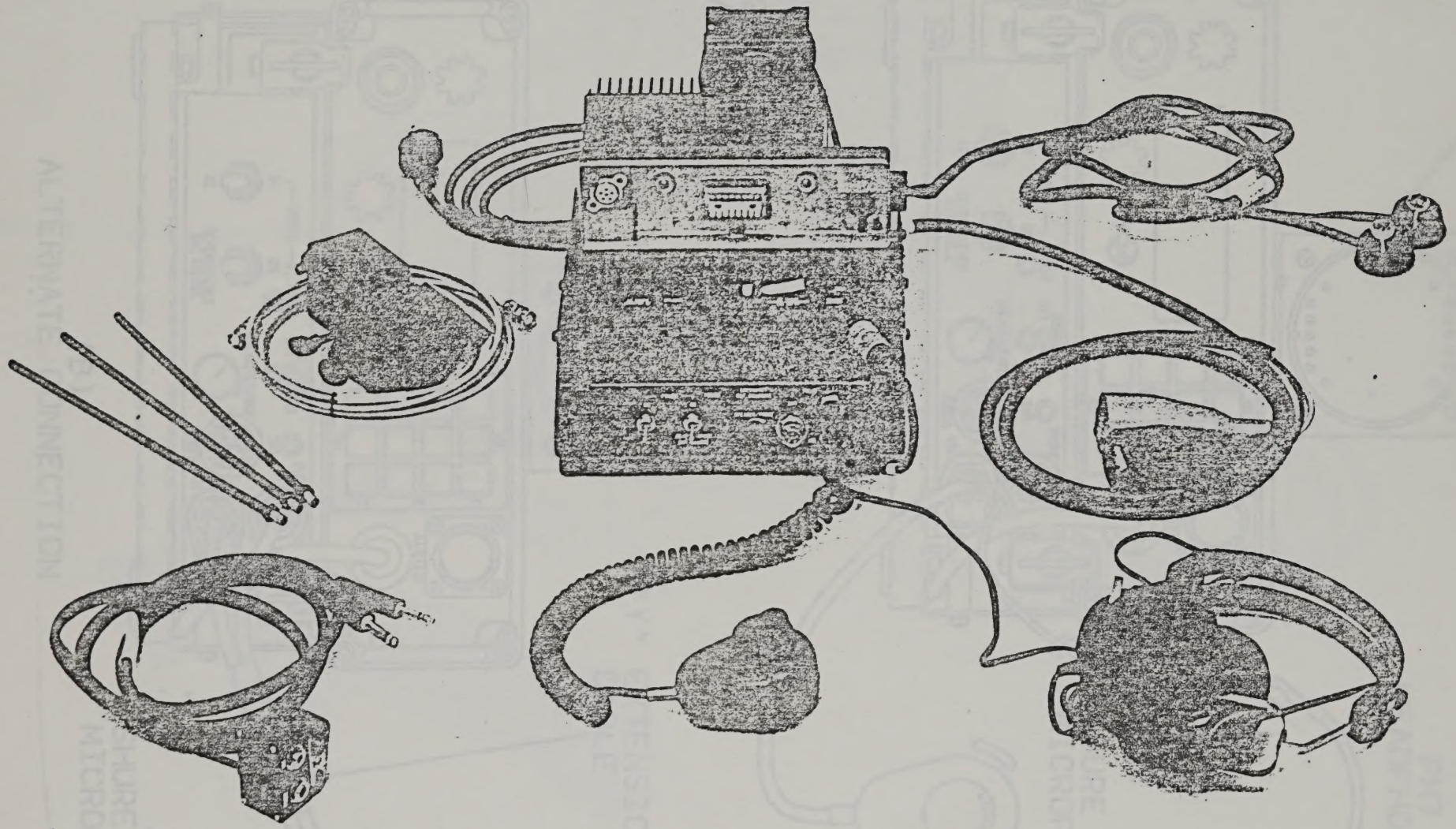

FIGURE 1-2 CA-269 (MXF-212-1) Components Connected

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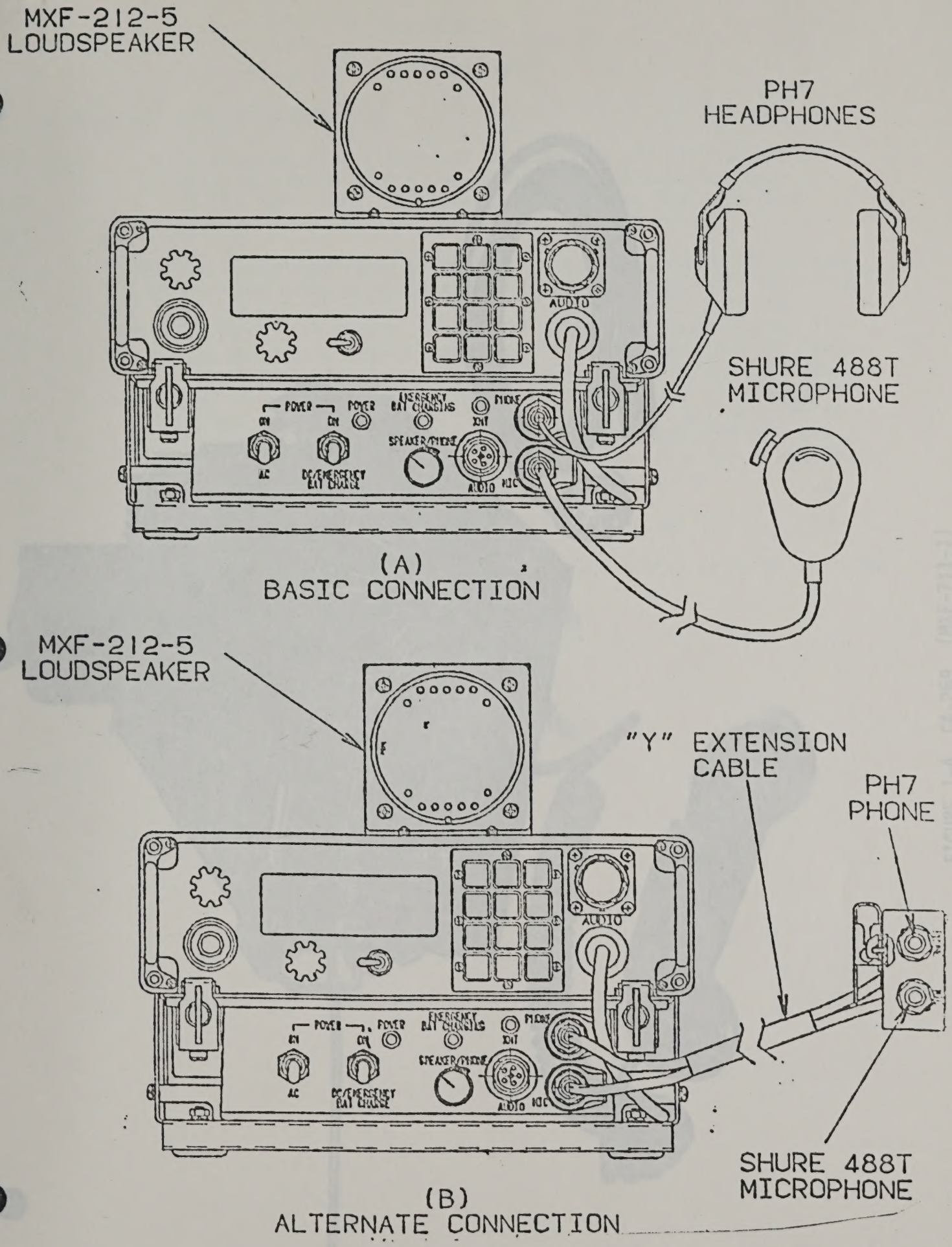
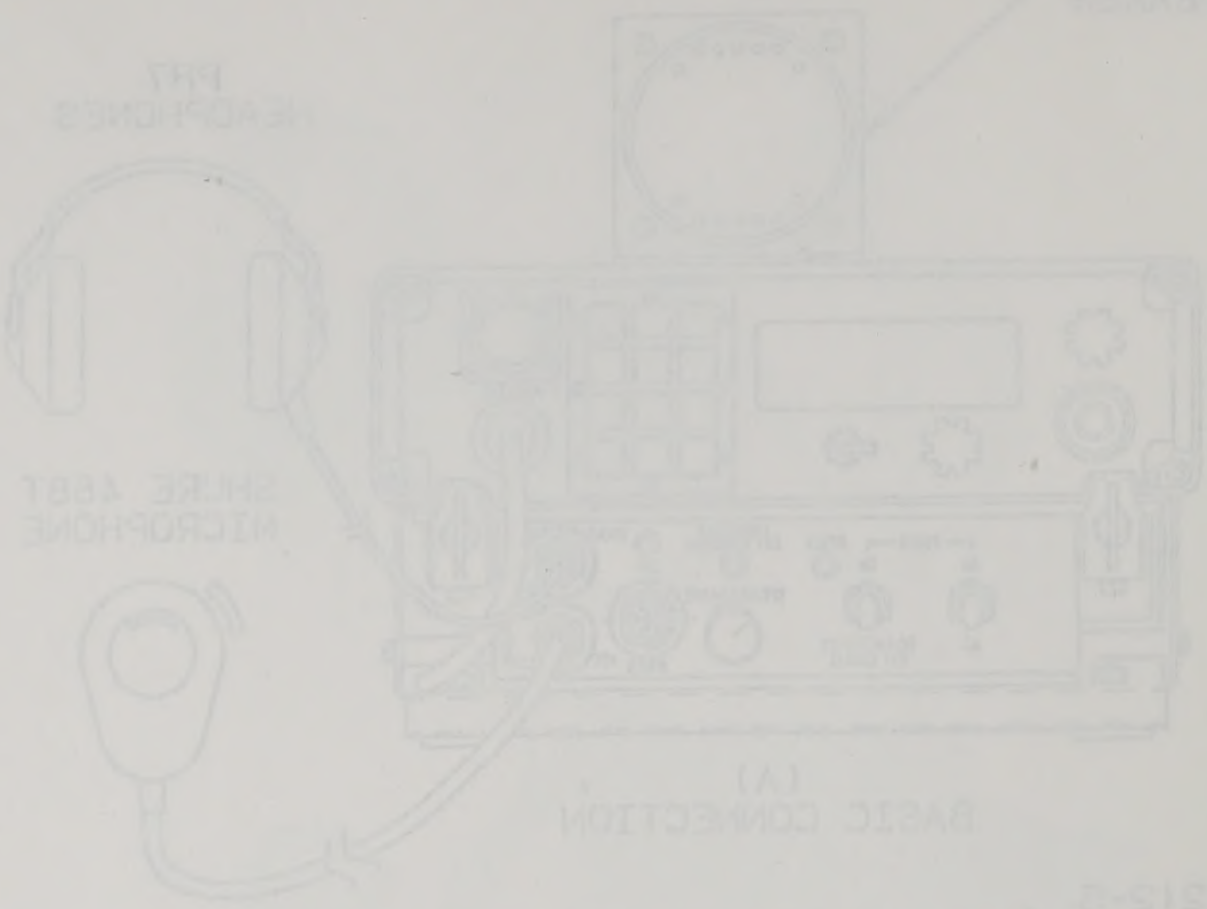


FIGURE 1-3 CA-269 with MXF-711-1 and "Y" Extension



(A)

(B)

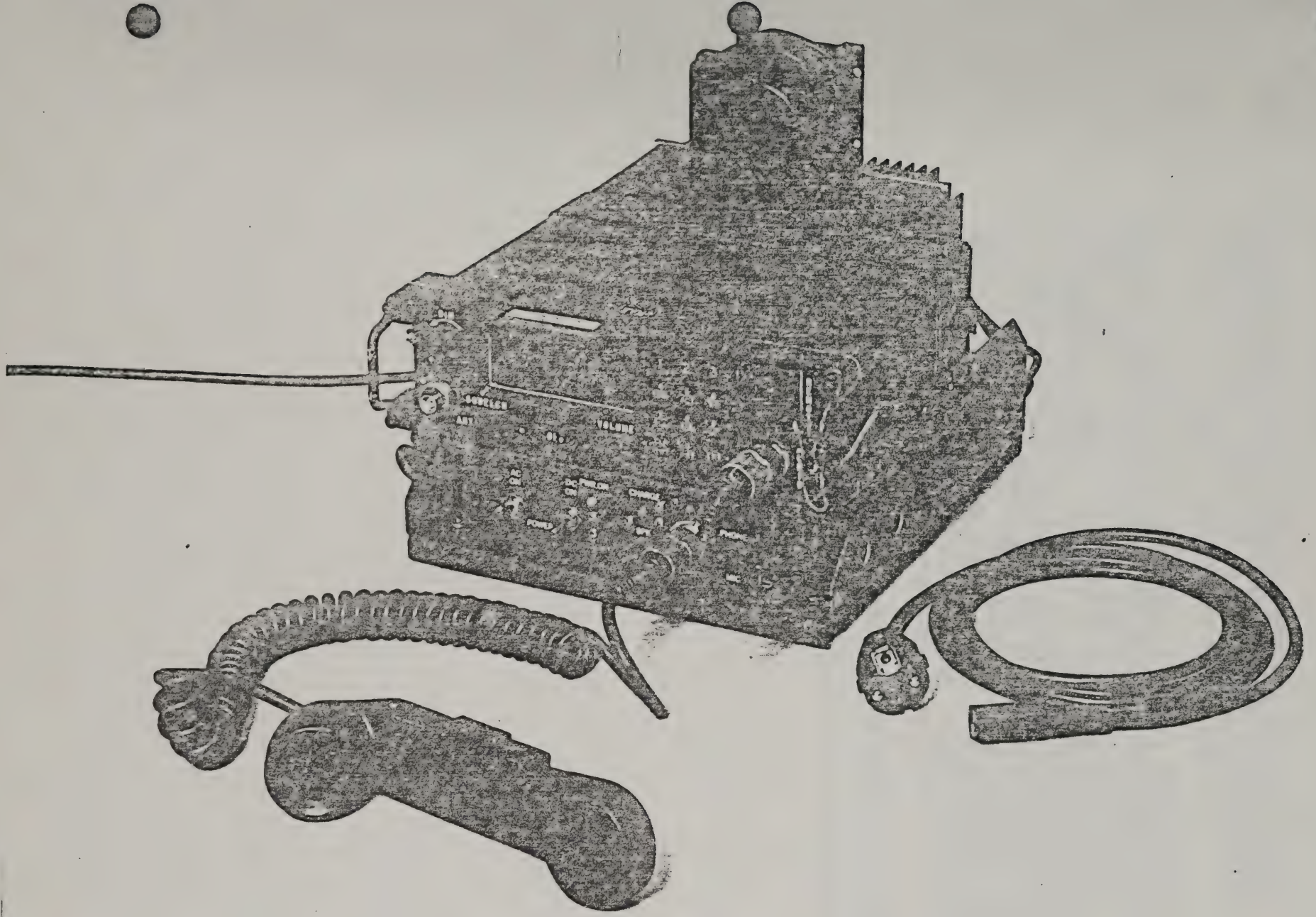


FIGURE 1-4 CA-269 (MXF-711-1)

CHAPTER 1

INTRODUCTION

SECTION 1 - GENERAL INFORMATION

SCOPE

- This manual is for your use in operating and maintaining Universal Power Supply, Audio and Antenna Mounting Group CA-269 (MXF-212). This manual provides you with detailed operating and operator maintenance instructions.

- The CA-269 (MXF-212) Universal Power Supply, Audio and Antenna Mounting Group provides mounting, DC power and audio interface to the MXF-711, RT-1319(U) and similar radio sets of the AN/PRC-113( ) family. The MXF-711 radio set when mounted in the MXF-212-1A Adapter provides all of the functions delineated in the MX-69-123 and MX-69-124 Operation and Maintenance manuals. The CA-269 enables fixed operation of the radio set from 220V, 50 Hz, AC utility lines. The CA-269 may also be installed on a vehicle with a 24 volt DC power system. The CA-269 provides a loudspeaker and a separate audio output useable for an external voice recorder and other operational accessories.

  For operation of the radio set, MXF-711, refer to T.O. MX-69-123.

- Section II of this chapter provides you with a description of the CA-269 equipment.

SECTION II

EQUIPMENT DESCRIPTION

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

CA-269 (MXF-212) CHARACTERISTICS AND CAPABILITIES

FIXED STATION INSTALLATION -

The CA-269 equipment may be installed in a ground location and, operated from either land utility 220V AC power or from a 24V DC storage battery. If a 24V storage battery is provided as an emergency back-up power source, the CA-269 will automatically switch to the battery power upon loss of the 220V AC land utility power. During AC operation, the CA-269 provides a trickle charge for maintenance of the 24V battery system (two 12 volt automobile lead-acid batteries connected in series are satisfactory). The CA-269 enables full operation of the MXF-711 radio set when operated from either power source.

MOBILE INSTALLATION

The CA-269 equipment may be installed in any vehicle which provides 24V DC power enabling full operation of the MXF-711 radio set.

QUICK RELEASE OF RADIO SET

The MXF-711 radio set is secured in the mount of the CA-269 by two thumb screw operated clamps. The radio may be quickly removed and reattached to it's battery pack for portable operation.

TRICKLE CHARGE OF NI-CAD BATTERIES

The CA-269 provides a trickle charge of the NI-CAD battery pair used for portable operation of the MXF-711 radio set. The charger is operated automatically from either the AC land power or the 24V DC power from the storage batteries or vehicle.

LOUD SPEAKER

The CA-269 provides a loudspeaker driven by a amplifier with adjustable output level to monitor the receiver output of the MXF-711 when installed on the MXF-212-1A adapter. The loudspeaker has quick release slide fasteners and a four foot cord to permit optional mounting at other locations.

In addition, the speaker may be removed, disconnected and reconnected to the audio connector of the MXF-711 radio to enable monitoring of the receiver when operated from its battery pack as a portable radio.

MICROPHONE OPTIONS

The CA-269 provides an additional hand-held noise-cancelling microphone which may be operated in parallel with the handset or headset normally used with the MXF-711 radio set.

HEADPHONE OPTION

The CA-269 provides a headphone with independent volume control which may be used in addition to the handset or headset normally used with the MXF-711 radio set.

Y EXTENSION CABLE

The CA-269 provides a 5 foot cable to extend the microphone and phone output jacks to the rear of a vehicle.

BASE FOR ANTENNA MOUNT

The CA-269 provides a base for adapting a portable VHF/UHF antenna to any available pipe support for ground or vehicle use. A short length of transmission line is provided.

DESCRIPTION OF COMPONENTS OF THE CA-269 (MXF-212) EQUIPMENT

NOMENCLATURE/ COMMON NAME	PURPOSE	DESCRIPTION
1. MXF-212-1A Adapter Audio and Power P/N 816911-801	Provides mounting and interface connections to radio set MXF-711	Table top mounted or vehicular mounted unit with AC and/or DC power inputs.
2. MXF-212-2 AC Power Cable P/N 568770-801	Provides interconnection of adapter MXF-212-1A to 220V AC primary power	Provides European "Schuko" type AC plug and IEC-320 plug receptacle for adapter
3. MXF-212-3 DC Power Cable P/N 568771-801	Provides interconnection of adapter MXF-212-1A with vehicle 24V supply or with emergency 24V storage battery	Cable plug mating with adapter and clips for attachment to battery posts
4. MXF-212-4 NiCad Charger Cable Assembly P/N 568772-801	Provides trickle charge at .06 amp to two Ni-Cad BB-590( )/U Batteries for portable operation of radio	Powered by adapter 24-27 volt output. Charges batteries thru series resistor
5. MXF-212-5 Loudspeaker Assembly P/N 816912-801	External Speaker used with adapter or MXF-711 radio set	A 2 watt speaker with a universal mounting system and 8 ohm or 600 ohm input
6. "Y" Cable Extender P/N 568850-801	Extends the MIC and Phone outputs of adapter MXF-212-1A to rear seat of vehicle	Junction box with MIC and phone jacks on end or cable with (2) plugs for connection to adapter
8. Microphone, Shure 488T	Hand microphone with with PTT function	Noise cancelling, transistorized MIC, controlled magnetic.
9. Headphone TELEX PH7	Headphone monitor of Received audio signals	Two, 300 ohm phones, series connected with padded ear cushions and cable with PJ-055 plug.
10. Plug, Telephone P/N M642/4-1	Plug to be used at Record output of adapter	PJ-055 phone plug
7. Base, Antenna P/N 900062-801	Mounts V/U Antenna to any pipe support 3/4 to 1-1/2 inch diameter	Olive drab painted bracket with thumb screw attachment to pipe. 10 ft cable supplied. BNC connector.

TABLE 1-1 (coordinate with figure 1-4)

Equipment Data

GENERAL DETAILS

Temperature Range - Operating	-20°C to +55°C
Construction	Industrial Grade Rain Resistent Dustproof
Physical Size (Including MXF-711 Radio Set)	10.40 in. Wide 6.63 in. High 12.80 in. depth
Weight MXF-212-1A Adapter (only)	14 lbs, 4 oz.

AUDIO DETAILS

Microphone Input #1	Jack for PJ-068 plug (Mic Bias) +15V supply, 500 ohm AC load Output adjustable
Microphone Input #2	Receptable for UG-229/U connector plug, 150 ohm impedance requires .001 VRMS (H-250/U Handset)
Audio Outputs: Recorder Output (Receiver Sidetone)	Jack for PJ-055 Plug. 600 ohm load Adjustable to 0 dBm. Rec/Sidetone output
Phone Output (Receiver Output)	Jack for PJ-055 Plug. .010 mwatt 600 ohm load, adjustable SPK/ Volume control. Alternate to speaker output*
Handset Output (Receiver Sidetone Output)	Receptacle for UG-229/U plug, 1000 ohm 10 mwatt (H-250/U Handset) Adjustable at MXF-711 Radio set.
Speaker (Receiver Output)	1 Watt output Adjustable at SPK/VOL control. Alternate to phone output.*

* Insertion of PJ-055 plug into phone jack silences speaker. SPK or phone are muted on XMT.

POWER INPUT

AC Source - 220 ± 10% Volts 50-60 Hz
@ 180 VA MAX

OR

DC Source - 22-30 V DC
@ 3.0 Amp

DC OUTPUT TO RADIO SET

AC Source - 27.5V DC

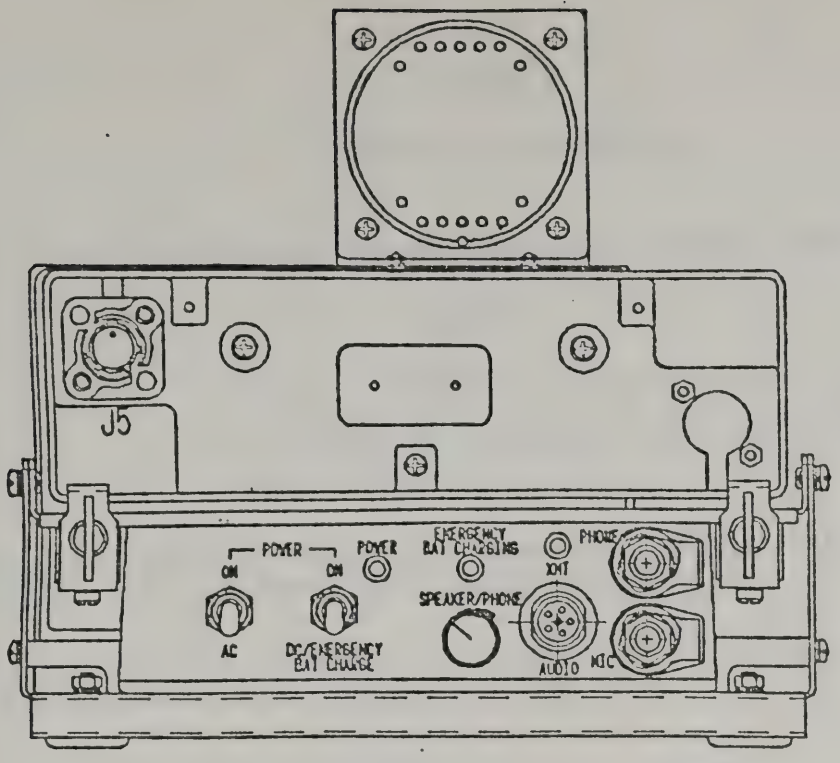
DC Source - 1.0 Volt less than battery source

TRICKLE CHARGE VOLTAGE TO STORAGE BATTERY

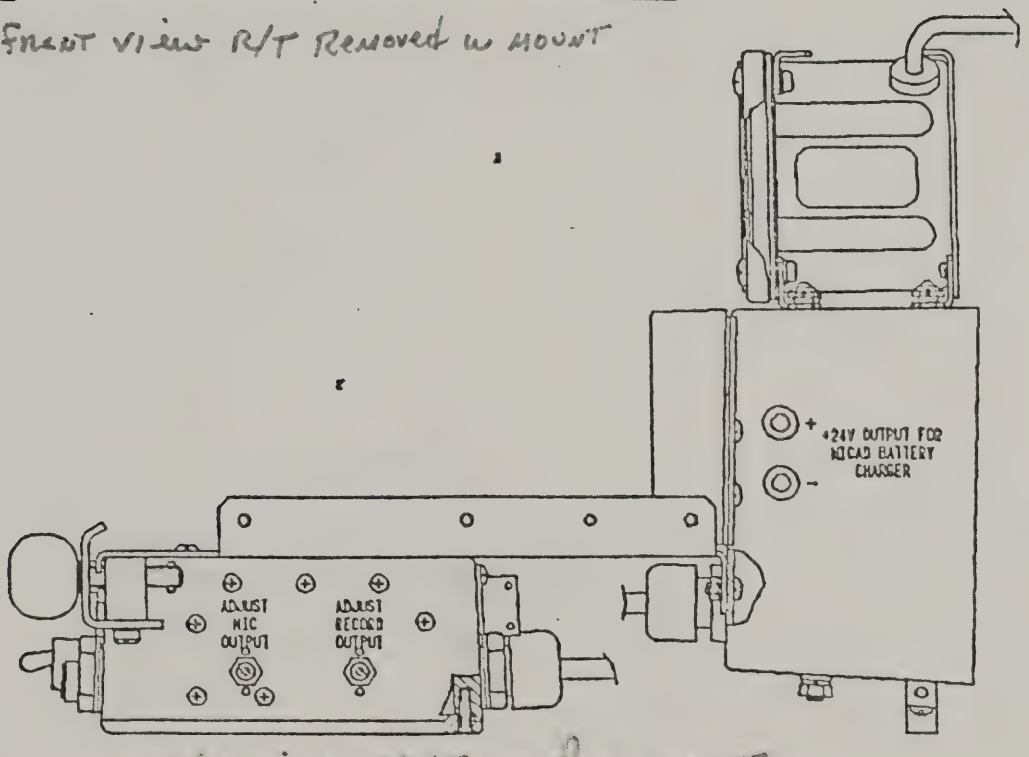
AC Source - 30.5 to 32.2 volts through series
3.01 ohm resistor.

TRICKLE CHARGE CURRENT TO BB-590( )/U NI-CAD BATTERY · FR-88/U

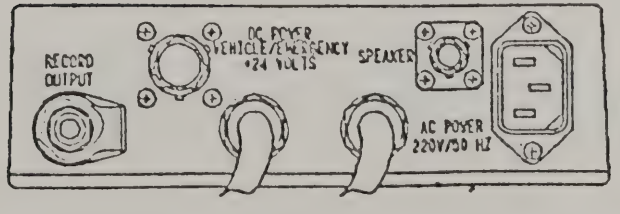
- .06 Amp each half of battery.



Front view R/T Removed w MOUNT



Side view R/T Removed w/o MOUNT



Rear view NO MOUNT

FIGURE 2.1 CONTROLS, INDICATORS, AND CONNECTORS (MXF-212-1A)

CHAPTER 2

OPERATING INSTRUCTIONS

SECTION I - DESCRIPTION AND USE OF OPERATOR'S CONTROLS AND INDICATORS

NOTE

General Information. The description and use of Operator's Controls and Indicators for the MXF-711 radio set are covered in the T.O. MX-69-123.

SECTION II - OPERATING PROCEDURES - Turn-on procedure and performance verification and procedures for standard operation.

SECTION III - INSTALLATION AND INTERCONNECTION OF THE CA-269 with the MXF-711 Radio Set and the accessory equipment supplied.

CAUTION

Before connecting or disconnecting AC and DC power cables check the power switches on the Adapter to ensure they are in the OFF position.

The MXF-212-1A has all of the operator controls, indicators, and panel connectors as described below:

NAME	FUNCTION	INDICATION
AC Power ON	Circuit Breaker/AC Power ON Switch in the 230V AC Input 220	Toggle Switch turns AC Power ON-OFF
DC/EMERGENCY BAT CHARGE ON	Circuit Breaker/DC Power ON Switch in the DC Input/Output Circuit	Toggle switch turns DC circuit to Vehicle/Emergency Battery ON-OFF
Speaker/Phone Control	Controls audio input level to speaker amplifier circuit card assembly	Rotation of knob controls speaker and phone output (muted on XMT). Independent of volume control on MXF-711 radio.
AUDIO	Extends the AUDIO connector of the MXF-711 radio.	Audio connector is interfaced to the H-157A Modified (150 ohm MIC) headset or to the H-250/U handset. The audio output is not muted. The level is independently controlled at the MXF-711 radio set.
Phone	Receive audio output (600 ohm), spring-loaded environmental cover.	Accepts PJ-055 plug of the PH7 head phone supplied. Insertion of the plug mutes speaker. Output muted on XMT. Alternately, the "Y" cable PJ-055 plug is used, also muting speaker.
MIC	Access to carbon microphone input circuit and XMT keying, a spring loaded environmental cover.	Accepts a PJ-068 plug and most carbon microphones. The Shure 488T supplied is a high quality, noise cancelling, dynamic, transistorized microphone.
Power (Indicator)	Indicates either AC or DC power is ON.	Light emitting diode (LED) glows when DC voltage is available to MXF-711 radio.
Emergency BAT Charging (Indicator)	Indicates charging current into emergency battery.	The LED brightness varies with charge condition of emergency battery.
XMT (Indicator)	Indicates a XMT signal is supplied to MXF-711 radio.	LED glows when any PTT MIC key is operated in a handset, headset, or microphone connected to the Adapter.
RIGHT SIDE PANEL		
Adjust MIC Output	Gain control in carbon microphone circuitry.	Screwdriver (lockable) output adjustment of microphone connected to MIC input.

NAME	FUNCTION	INDICATION
RIGHT SIDE PANEL (Cont'd)		
Adjust Record Output	Control in unattenuated audio output from MXF-711 radio.	Screwdriver (lockable) output adjustment of microphone connected to MIC input.
+24 VDC Output for Ni-Cad Battery Charger	Access to DC voltage supply to MXF-711 radio	Provides a DC output supply to the MXF-212-4 Ni-Cad Trickle Charger when the adapter is powered from either an AC or a DC primary power.
MID PANEL REAR		
AC Power 230V/50Hz	AC Input	Receptacle for European type plug.
Speaker	8 ohm Audio Output to Speaker.	Three pin receptacle MS-3112F8-3S for Speaker MXF-212-5.
DC Power VEHICLE/ EMERGENCY +24 Volts	DC Input or DC Trickle Charger output	Three pin receptacle MS-3112F12-3P for DC power cable MXF-212-1. The cable provides battery clips for connection to standby/emergency lead-acid battery or to a vehicular battery.
RECORD Output	Radio Set Receive/Sidetone audio output, attenuated to 0 dBm, 600 ohms.	A spring-loaded, covered jack for a PJ-055 plug (supplied).

When using AC Power Source

1. Position AC Power switch on - Power Lamp on. FR or/U

2. Nicad Charger Cable Assembly Indicators. If BB-590( )/U batteries are connected to the charger, each of the green indicator lamps should glow. If not, verify that the red dot on charger cable is located adjacent to red output jack.

3. Position DC power switch on - (assuming an emergency 24V battery is connected) - the EMERGENCY/CHARGE indicator should glow.

NOTE

The emergency/charger indicator should glow more brightly at turn ON and become weaker as the Battery becomes charged.

4. Rotate VOLUME control CW on MXF-711 Radio Set to midway position.

5. Connect a H-250/U handset (not supplied) to the AUDIO connector of the MXF-212-1A Adapter, receiver noise should be heard in the handset. The radio set operation should be as described in the MX-69-123 Operator's Manual for the radio set.

6. Adjust the SPEAKER/PHONE control CW to mid-position. Receiver noise should be heard on speaker when PHONE output jack is open.

7. Insert headphone plug PJ-055 into PHONE jack. Speaker should turn OFF and receiver noise should turn be present in headphone. Remove PJ-055 earphone cable plug.

8. Depress the PTT switch on the H-250/U handsets and voice modulate the radio set. Sidetone should be present in the H-250/U earphone. The XMT lamp should glow. The speaker output should be muted.

9. Receiver noise and sidetone voice should be present in the signal from the RECORD output jack.

10. Depress PTT Switch on the microhphone connected to MIC jack on adapter. Sidetone should be present in the H-250/U earphone and at the RECORD output jack. The XMT lamp should glow.

When using DC Power Source

1. Position DC Power switch on - Power lamp on.

2. Nicad Charger Cable Assembly Indicator - (Assuming the nicad charger is connected to the BB-590/U Batteries) - each of the green indicator lamps should glow. If not, verify that the red dot on the charger cable is located adjacent to red output jack.

FR/or U

PROCEDURE FOR STANDARD OPERATION

Follow the radio set operational procedures in the MX-69-123 Operator's Manual for the MXF-711 radio set.

NOTE: For portable operation of the MXF-711 outside and separate from the CA-269, loosen the two thumbscrews and remove the radio from the Adapter. Disconnect the Nickel Cadmium battery charger from BB/590( )/U then reassemble the batteries into the case as directed in the MX-69-123 Operator's Manual.

CHAPTER 2 , SECTION III

INSTALLATION AND INTERCONNECTION OF THE CA-269

UNPACKING

Remove the CA-269 components from the packing material. Inspect for any visual damage or deformation of the components.

A. Table-Top Installation. The MXF-212-1A Adapter may be set up on any flat surface providing a space 10.5 inches wide and 13.62 inches deep. A minimum vertical clearance of 9.25 inches is required with speaker installed on top of unit. Without speaker, a minimum vertical clearance of 6.63 inches should be provided. The rear mounted heat sink fins should be unobstructed.

(1) Adapter (MXF-212-1). Set adapter on the mounting surface. Place the AC and DC power-on circuit breaker switches to their OFF positions.

(2) Speaker (MXF-212-5). Uncoil approximately 2 feet of the speaker cord from around speaker. With Receiver-Transmitter removed from MXF-212, route the two speaker connectors through the opening provided on the right rear side immediately beneath the red and black binding posts. Connect the three pin cable plug to the speaker receptacle on the rear center of the adapter. The second connector is not used and may be laid along side the speaker cable. Set speaker on top right side of the adapter engaging the four mounting studs and secure with the (4) slide clips provided.

(3) AC power cable (MXF-212-1). Run the plug receptacle of the AC power cable through the right rear opening in the adapter and insert into the AC power receptacle. Connect the two pin plug at other end of the cable to the 220 VAC mains.

(4) DC power cable (MXF-212-2). Run the round connector of the DC power cable through the right rear opening in the adapter and connect to the DC Power Vehicle/Emergency +24 volts receptacle of the adapter. Rotate the cable plug until the internal key lines up. Connect the battery clips on the other end of the cable to a 24 volt lead-acid storage battery (or equivalent).

NOTE: The storage battery is not supplied. The battery is required only for emergency or DC operation of the equipment. A pair of series connected high quality automotive batteries should be sufficient.

(5) PJ-055 at RECORD OUTPUT. (Optional) Preassemble a suitable audio cable to the PJ-055 plug provided. The plug should be run through the opening provided at the right rear of the adapter. Hold the spring cover of the Record Output jack open and then insert the PJ-055 plug into the Record Output jack. Connect the other end of the cable to the monitor equipment (not supplied).

(6) Microphone, Shure 488T. Insert microphone PJ-068 plug into MIC connector of the adapter.

(7) Headphone - Telex PH7. (Optional) Insert the PJ-055 plug of the headset into the PHONE connector of the adapter. (This disconnects the speaker).

(8) Radio Set Installation. With the antennas and battery case removed, install MXF-711 or RT-1319( )/U radio set at the top front of the adapter, engaging the blind connector at the rear and securing with the two thumbscrews. Connect the cable plug P3 of the adapter to the AUDIO connector of the radio set. The antenna output of the radio set must be connected to an antenna.

(8a) Ni-Cad Battery Charging (Optional). Insert each of the two charger assemblies of the MXF-212-4 Ni-Cad Trickle Charger Assembly into a BB-590( )/U Ni-Cad Battery. Connect the dual banana pin plug at the other end of cable assembly into the 24 volt output terminals of the adapter, matching the red dot of the connector to the red positive output terminal. Internal diodes in cable assembly prevent damage to or charging of BB-590/U if plug is inadvertently reversed.

(9) Antenna Mounting Base. The base antenna assembly, P/N 900062-801, adapts the portable V/U antenna P/N 812059-1 (not supplied as part of the antenna base) for mounting on a short pipe, 7/8 to 1-1/2 inches in diameter. A 10 foot cable with BNC connectors is provided for interconnection to the antenna receptacle on the MXF-711 radio front panel.

Assemble the Antenna Mounting Base by screwing the 3 grounding rode firmly into place; one (1) grounding rod in the Mast Adapter Block and the other 2 in the Mast Adapter Plate. Attach one end of the Antenna Cable Assembly to the connector on the Angenna Mounting Base. If more convenient, the Antenna Cable and connector may be pushed up through the mast and attached to the connector.

Mount the portable V/UHF antenna P/N 812059-1 (not supplied with the CA-269) on the antenna base. Tighten the swivel joint securely after positioning the antenna in a vertical position. Position the Antenna Mounting Base Assembly onto the pipe mast at the site. Secure with the two thumbscrews.

(10) H-250/U Handset (Optional) Not provided with CA-269 equipment, but normally available with the MXF-711 radio set. Connect the UG-229/U connector the the AUDIO connector on the MXF-212-1A adapter. The handset functions as described in the Operator's Manual MX-69-123 for the radio set.

NOTE: For portable operation of the MXF-711 outside and separate from the CA-269, loosen the two thumbscrews and remove the radio from the Adapter. Disconnect the nickel cadmium Battery Charger from BB-590( )/U then reassemble the batteries into the case, as directed in the MX-69-123 Operator's Manual.

B. Vehicle Installation. The MXF-212-1A Adapter may be mounted in a vehicle with a 24 volt negative ground electrical system and lead-acid storage batteries. The vehicle installation for the adapter is the same as the Table Top Installation, except as follows:

(1) Select a suitable space which will permit the adapter to set firmly on the four rubber feet. Locate the two 1/2 inch mounting holes and drill the vehicle as required. Secure the adapter to the vehicle with (2) 3/8 inch bolts and washers. Position the AC and DC power-ON circuit breaker switches to their OFF position.

(2) AC Power Cable (MXF-212-1). Not required.

(3) "Y" Extender Cable, P/N 568850-801. (Optional). Alternately, the microphone and headphone may be extended to an operator in the rear of the vehicle by use of the "Y" extender cable. Insert the "Y" cable connectors PJ-068 plug in the MIC jack at the adapter and the PJ-055 plug into the PHONE jack of the adapter. The "Y" cable extends the MIC input and Phone output jacks to its black junction box. Insert the cable plugs of the MIC and Headphone into the jacks located on the junction box. The box has a convenient clip for attachment to clothing.

NOTE: The insertion of any PJ-055 plug into the PHONE jack on the front of the adapter will disconnect the speaker from the radio output.

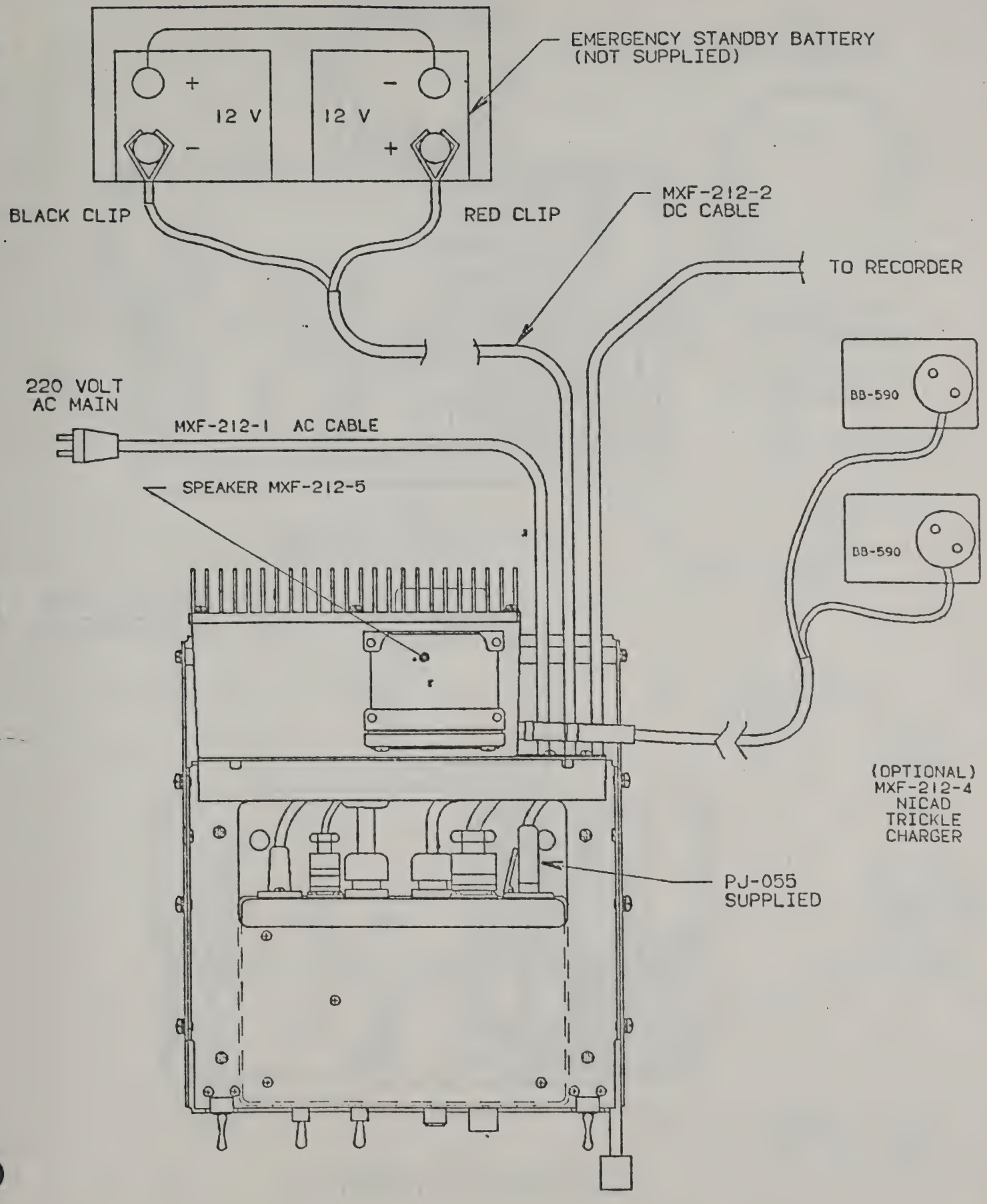


FIGURE 2-2 CABLING TO MX-212-1A ADAPTER

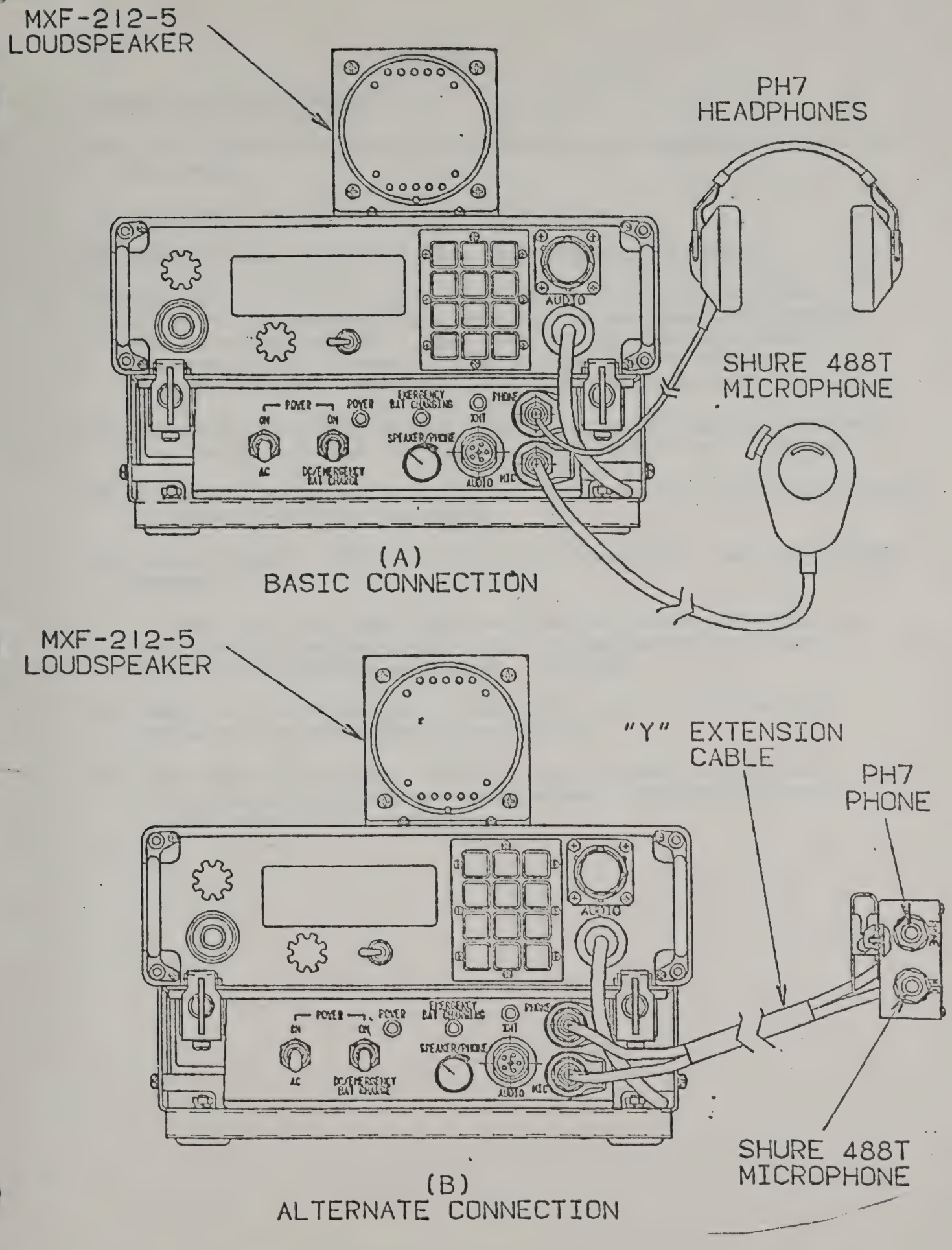


FIGURE 2-3 MICROPHONE, HEADPHONE, AND "Y" EXTENSION

CHAPTER 3

PREPARATION FOR RESHIPMENT

There are no special instructions for repacking the components of the CA-269. To disassemble,

(1) Disconnect the AC power plug from the mains.

(2) Disconnect the DC Battery Clips from the Battery Terminals.

(3) Disconnect P3 from the aduio connector of the MXF-711 radio set. Disconnect the antenna cable. Unscrew the two thumbscrew retainers and remove the radio set. Pack radio set for storage or shipment. Disconnect the microphones and phone plugs from the adapter. Pack the microphone and headphone for storage or shipment.

(4) Disconnect the Ni-Cad Battery Trickle Charger MXF-212-4 cable assembly from the batteries and the adapter. Pack for storage or shipment.

(5) Disconnect the Record Output cable at the recorder. It is not necessary to remove PJ-055 from the adapter.

(6) Speaker Assembly MXF-212-5. It is not necessary to remove the speaker. Optional.

(7) AC Power Cable, DC Power Cable, Recorder and Speaker cables may be left connected to the MXF-212-1 Adapter when packing the Adapter MXF-212-1A for storage or shipment. Optional.

(8) Vehicular Installation Only. Remove the two bolts securing the bottom tray of the adapter to the vehicle.

(9) Dissassemble the antenna and antenna base assembly from the mast. Disconnect antenna cable and remove antenna. Unscrew the three counter poise rods for repacking.

CHAPTER 4

MAINTENANCE INSTRUCTIONS

Section 1

Lubrication Instructions

Lubrication of the Adapter set is limited to lubrication of the gasket on the radio set case when replacing batteries (refer to BATTERY INSTALLATION). (MXF-711-1) (MX-69-123)

Section II

Maintenance Procedures

Operator maintenance for the Adapter Set is limited to keeping it clean at all times. Use a clean, lint-free cloth to clean the adapter set.

For field maintenance see Table 4-1, the maintenance parts list is on the following page.

TABLE 4-1

MAINTENANCE PARTS LIST

OPERATOR AND ORGANIZATIONAL

PART NUMBER	NOMENCLATURE	NUMBER REQUIRED/UNIT
816911-801	Adapter Audio and Power MXF-212-1A	1
568770-801	AC Power Cable MXF-212-2	1
568771-801	DC Power Cable MXF-212-3	1
568772-801	Nicad Charger MXF-212-4 (non-repairable)	1
816912-801	Loudspeaker MXF-212-5	1
568850-801	"Y" Cable Extender	1
488T	Microphone	1
Telex PH7	Headphone	1
M642/4-1	Telephone Plug	1
900062-801	Antenna Base	1